

Outline of Microarray Chip Technology approach

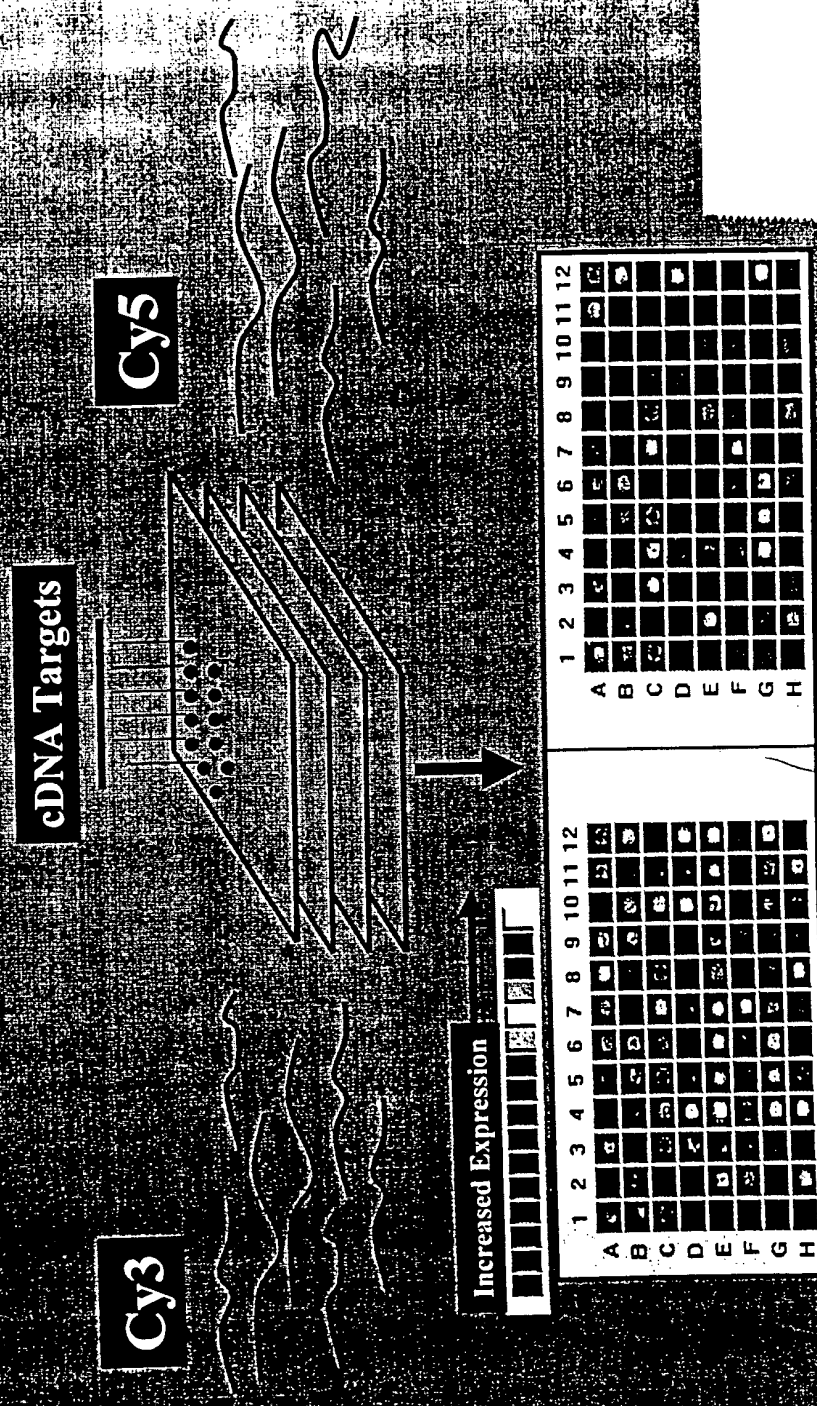


FIG. 1

General protocol for *in-vitro* whole gene CD8 T cell priming

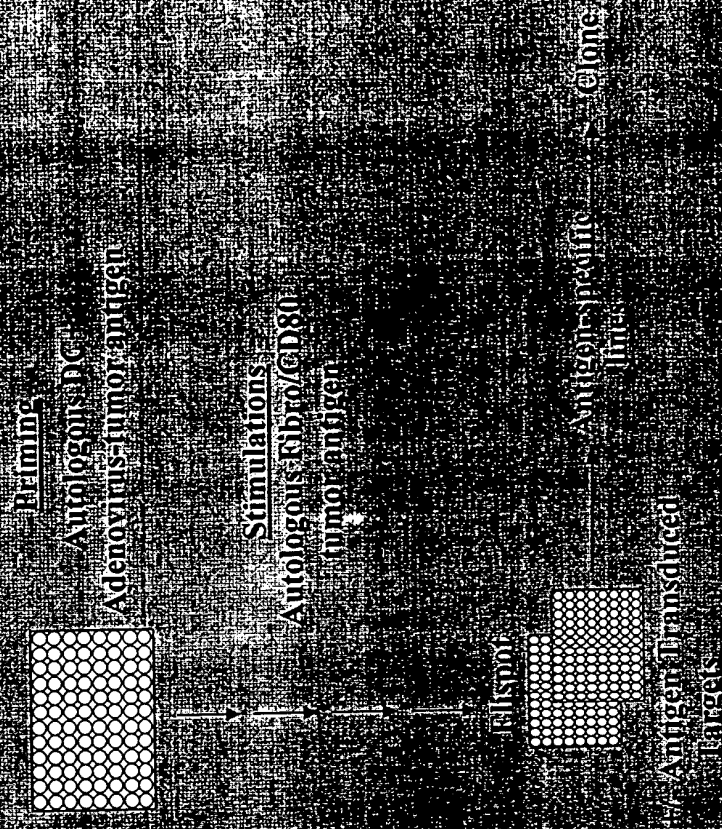


FIG. 2

General protocol for *in-vitro* whole gene CD4 T cell priming

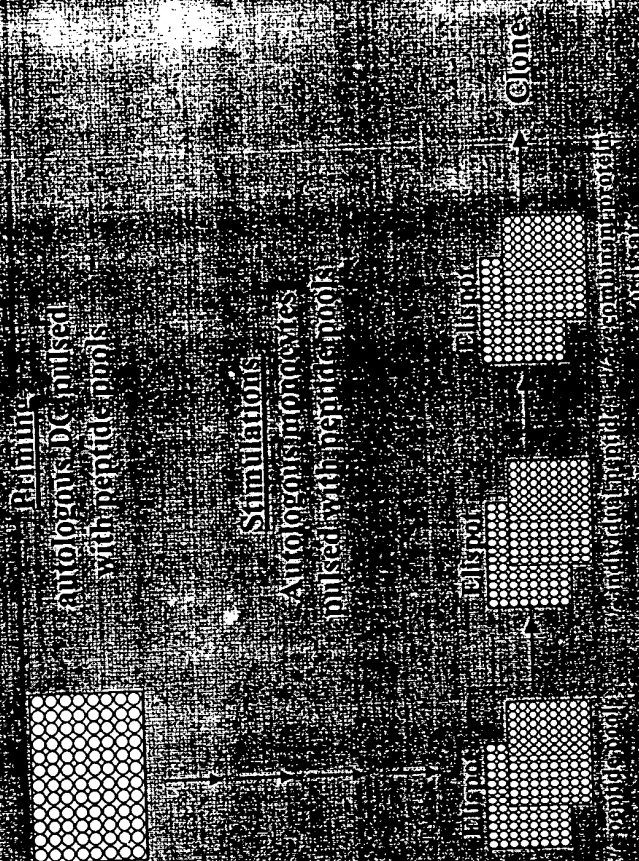


FIG. 3

10040862-110601

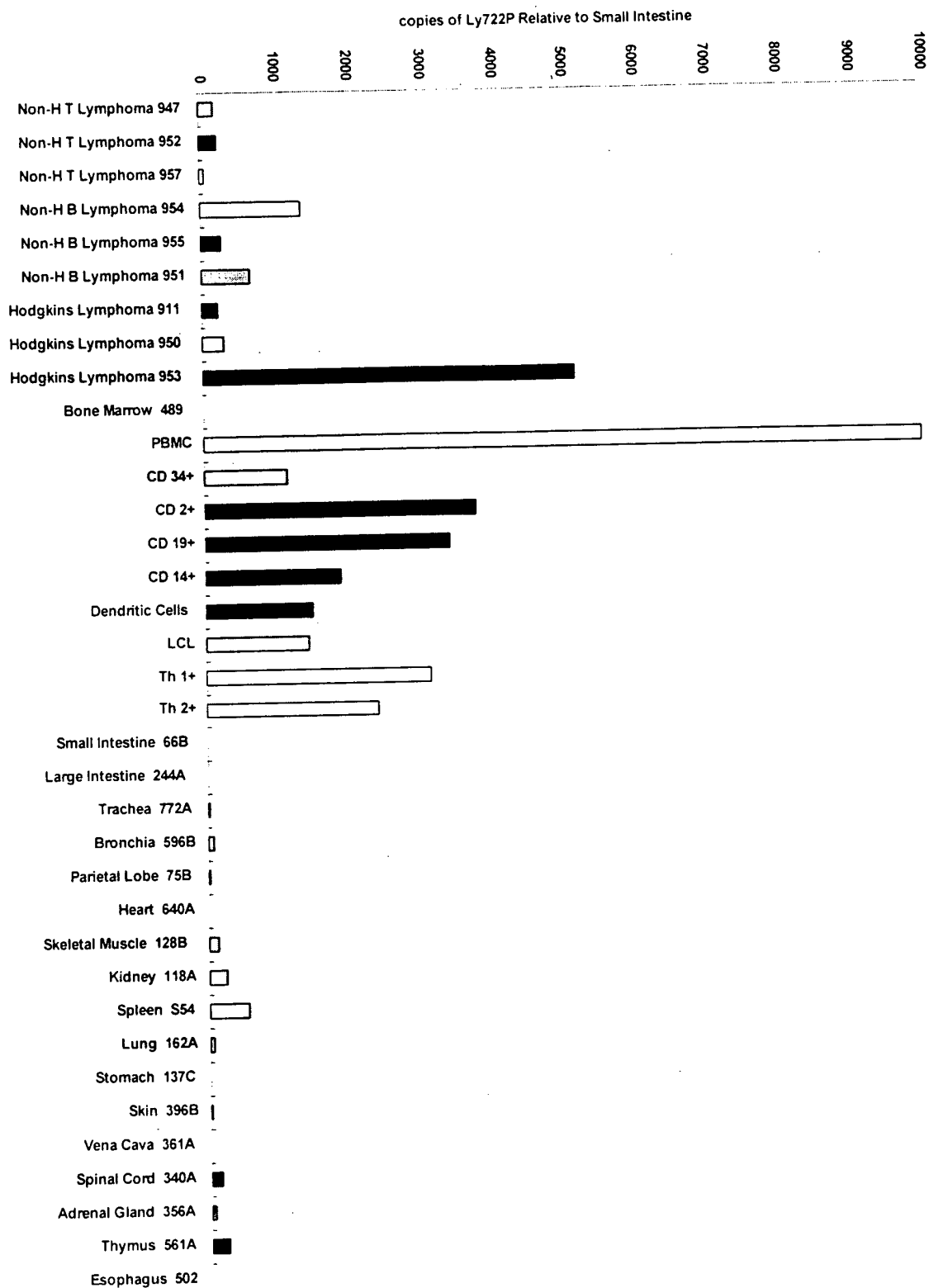


FIG. 4

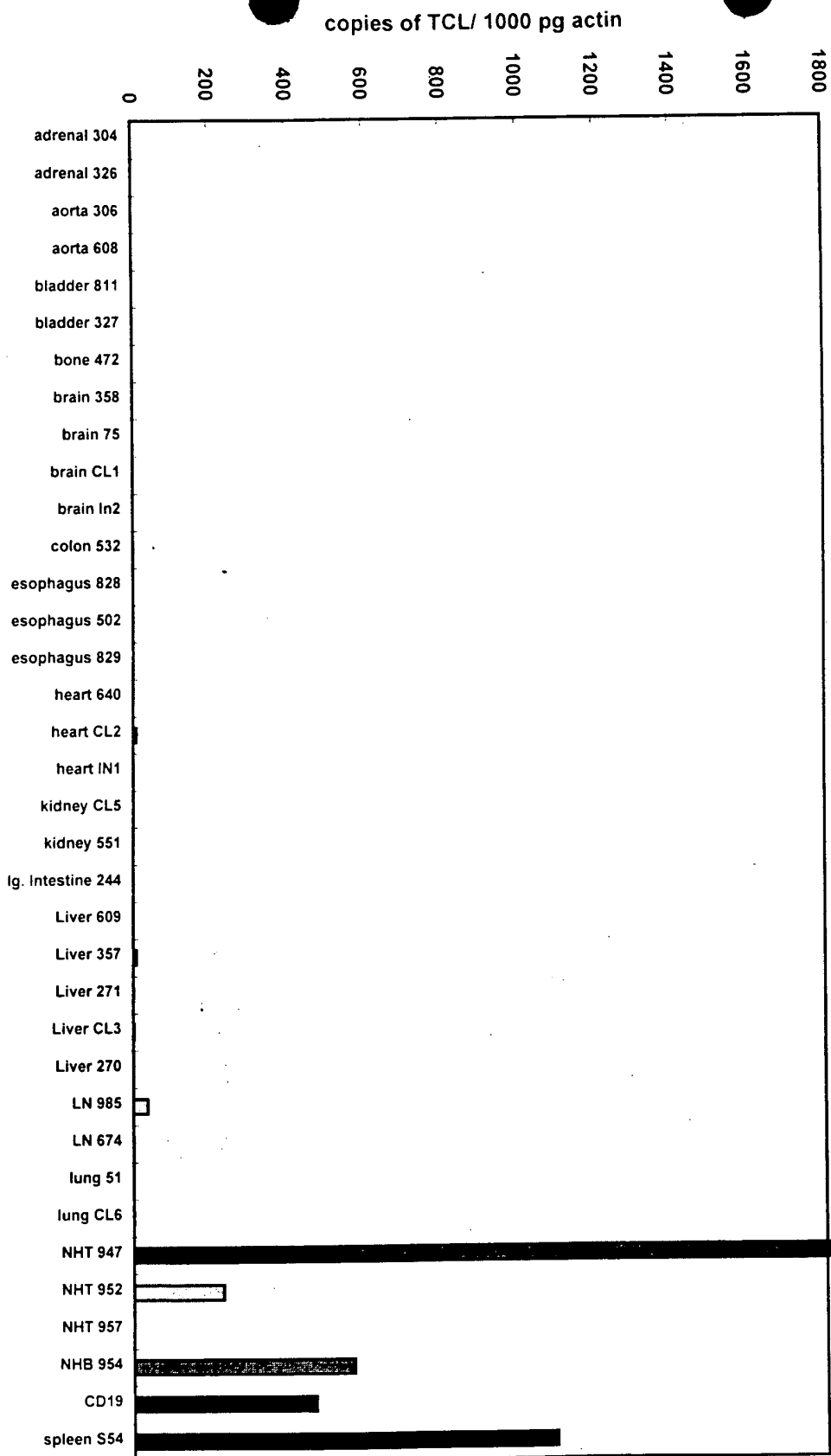
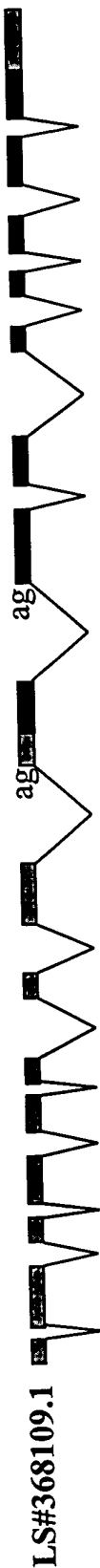
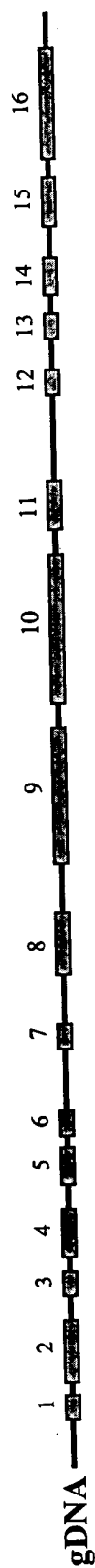


FIG. 5

Chromosome 1:



LS#1384258.1

Ly1448P

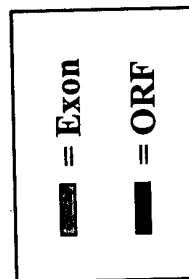


FIG. 6

A - AMPHI mid points of blocks.
 R - Residues matching the Rothbard/Taylor motif.
 D - Residues matching the IAd motif.
 d - Residues matching the IEd motif.

```

      5   10   15   20   25   30   35   40   45   50   55   60   65   70   75
MGKKTQRLSLEIIPAVKESDAGKYICRADNGHVPIQSKVVNIPVRIPVSRPVLTLRSPGAQAAGDLELHCE
.....AAAA.....AAAAA.....RRRR.....RRRR...R
.....DDDDDD.....DDDDDD.....
.....
      80   85   90   95  100  105  110  115  120  125  130  135  140  145  150
ALRGSPPILYQFYHEDVTLGNSSAPSGGASFNLSLTAEHSGNYSCEANGLGAQCSEAVPVVISGPDGYRRDLM
.....AAAAA.AAA.....AAAAA...
RRR.....RRRR.....DDDDDD.....
.....
     155  160  165  170  175  180  185  190  195  200  205  210  215  220  225
TAGVLWGLFGVLGFTGVALLLYALFHKISGESSATNEPRGASRPNPQEFTYSSPTPDMEELQPVYVNVGSVDVDV
.....AAAAA.....AAAAA.....AAAAA...
R.RRRRRRRRRRRRR.....RRRR.....RR
.....DDDDDD.....DDDDDD.....
.....
     230  235  240  245  250  255  260  265  270  275  280  285  290  295  300
VYSQVWSMQQPESANIRTLLLENKDSQVIYSSVKKS
.....AAAA.....
RRR.....RRRR.....
DDD.....
.....

```

10040862-110601

FIG. 7

10040962.110601

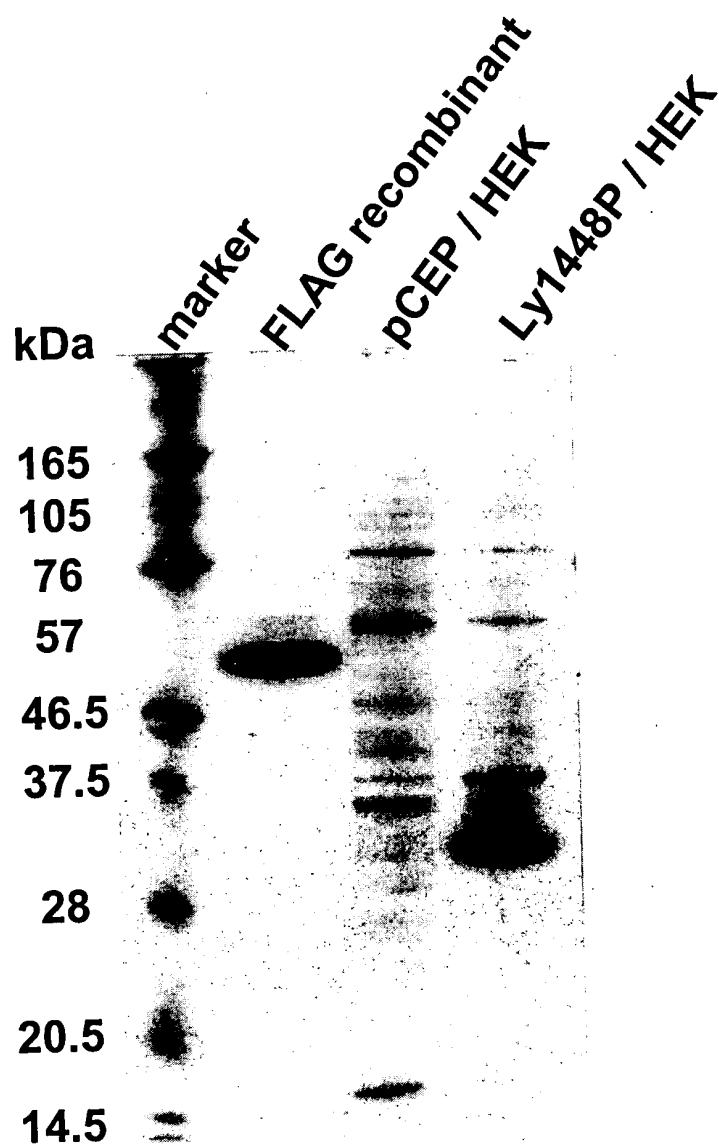


FIG. 8

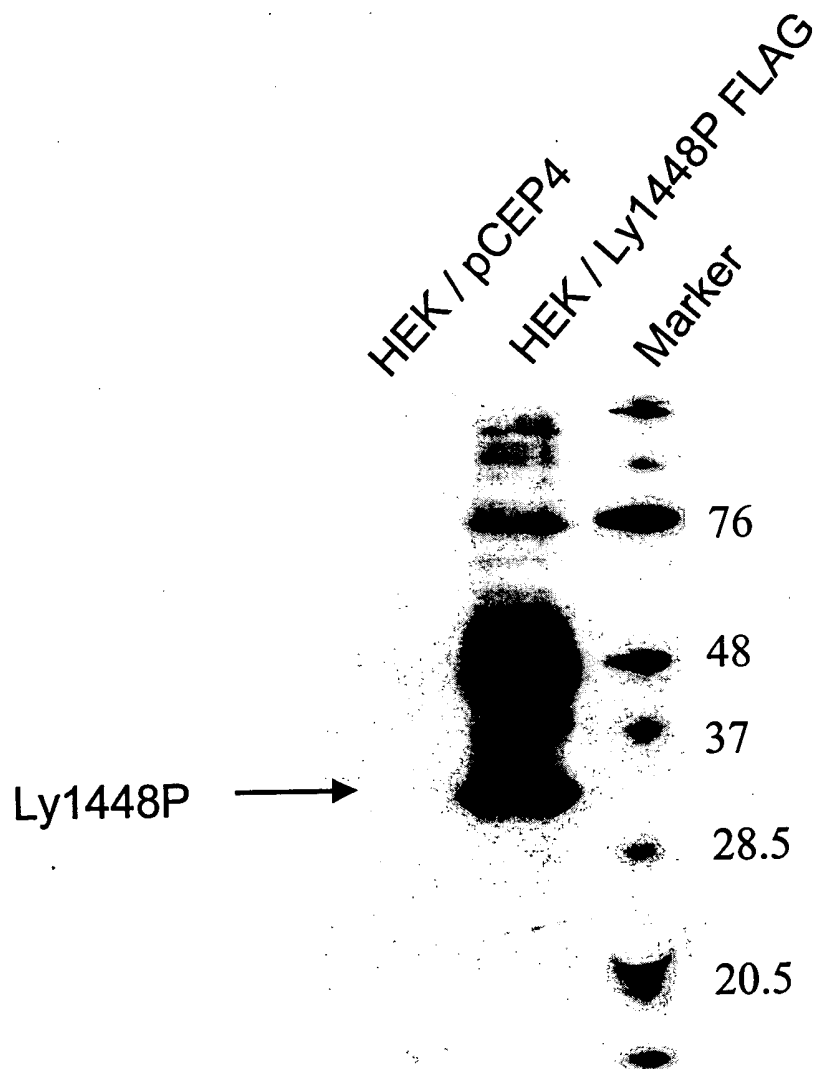


FIG. 9